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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,585	02/10/2004	Yoichi Furuichi	088473-0160	1358
22428	7590 03/10/2005		EXAMINER	
FOLEY AND LARDNER			BROADHEAD, BRIAN J	
SUITE 500 3000 K STRE	ET NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			3661	
			DATE MAILED: 02/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
$\mathcal{V}$	10/774,585	FURUICHI ET AL				
Office Action Summary	Examiner	Art Unit				
,	Brian J. Broadhead	3661				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address -				
Period for Reply	·					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failtire to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communica D (35 U.S.C. § 133).	· ation.			
Status	•					
1) Responsive to communication(s) filed on 10 Fe	ebruary 2004.	•				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-18 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.		,				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.	•				
10)⊠ The drawing(s) filed on <u>10 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	* '	• •				
Replacement drawing sheet(s) including the correcti	, , , ,		` ,			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152	<u>′.</u>			
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the priority documents</li> </ul>	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
Paper No(s)/Mail Date <u>2-10-04</u> .	6) Other:					

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 4, 5, 10, 11, 16, and 17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims state that the initial value of the second hydraulic pressure vary according to the limitations in the claims, but it seems that it should be the corrected initial value. If it is supposed to be the initial value the specification does not describe how this works.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. In claim 1, it is unclear whether the two "parts" in lines 12 and 14 are the same or different.

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6. In claims 1, 7, and 13, it is unclear whether the last limitation sets the second hydraulic pressure before the start of feedback or whether the calculated difference is calculated immediately before feedback.

- 7. In claims 4, 10, and 16, it is unclear what is being claimed and what "areas" are being cited. The examiner has assumed that the limitations are meant to convey that the initial value of pressure decreases with an increase in the calculated difference in output-side rotational speed. It is suggested that the claims be amended to use language similar to the language in the last sentence.
- 8. The remaining rejected claims are rejected for being dependent on an indefinite claim.

## Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1, 2, 3, 6, 7, 8, 9, 12, 13, 14, 15, and 18 are rejected under 35 U.S.C.103(a) as being unpatentable over Wakahara et al., 5115695.
- 11. Wakahara et al. disclose a sensor which senses a parameter on a vehicle cruising condition(4088) and an electronic control unit (ECU) which is operative in response to the sensed parameter(4010), the ECU comprising: a part which calculates, in accordance with the sensed parameter, a difference in output-side rotational speed of the fluid coupling before and after the shifting in lines 12-22, on column 6; and a part

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which sets, when the shifting is carried out with an output of the engine being smaller than a predetermined value, the second hydraulic pressure in accordance with the calculated difference immediately before start of the feedback control on lines 22-24, on column 6; the second hydraulic pressure has an initial value determined in accordance with torque acting on the output side of the fluid coupling immediately before start of the feedback control, the initial value being corrected in accordance with the calculated difference in output-side rotational speed in figure 6 and 7; and a map for the corrections in figures 6, 7, and 8. The output side-rotational speed difference is equivalent to the difference between the driven and driving elements. The driven element represents the eventual gear and that is the final speed of the driving element after the shift due to the direct relationship of the driven element to vehicle speed. Wakahara et al. do not disclose feedback control. Official notice is taken that feedback control and its advantages is widely known in prior art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use feedback control in the invention of Wakahara et al. because such modification would ensure smoother shifting and help remove any variations due to disturbances.

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### Allowable Subject Matter

12. Claims 4, 5, 10, 11, 16, and 17 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 1<sup>st</sup> and 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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13. The following is a statement of reasons for the indication of allowable subject matter: The prior art doesn't disclose the corrected pressure decreases as the calculated difference increases. Wakahara et al. actually operates opposite of this.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Broadhead whose telephone number is 703-308-9033. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 703-305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).